Fig. 1

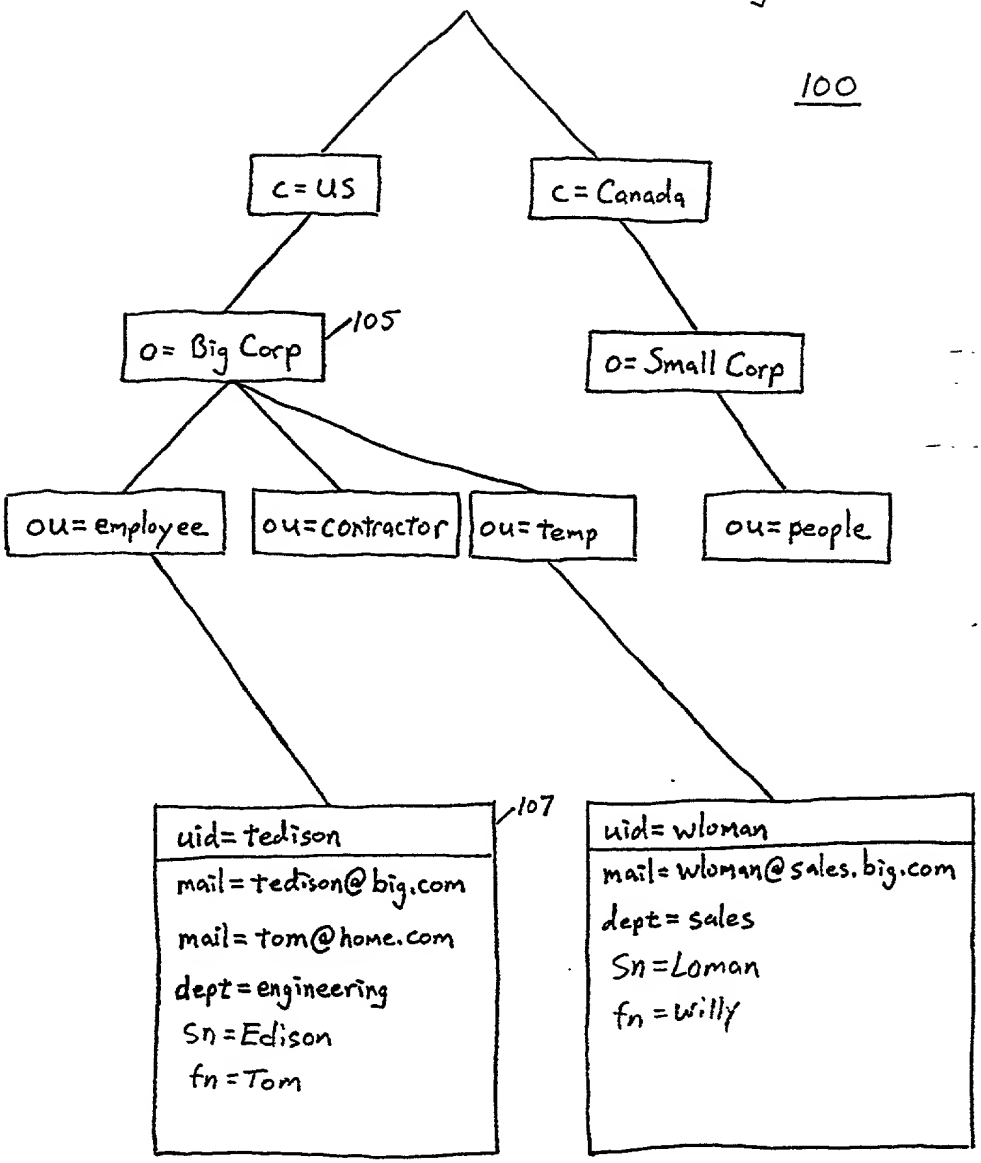

100
c=US
c=Canada
o=Big Corp
105
o=Small Corp
ou=employee
ou=contractor
ou=temp
ou=people
uid=tedison
mail=tedison@big.com
mail=tom@home.com
dept=engineering
Sn=Edison
fn=Tom
107
uid=wloman
mail=wloman@sales.big.com
dept=sales
Sn=Loman
fn=willy

Fig. 2

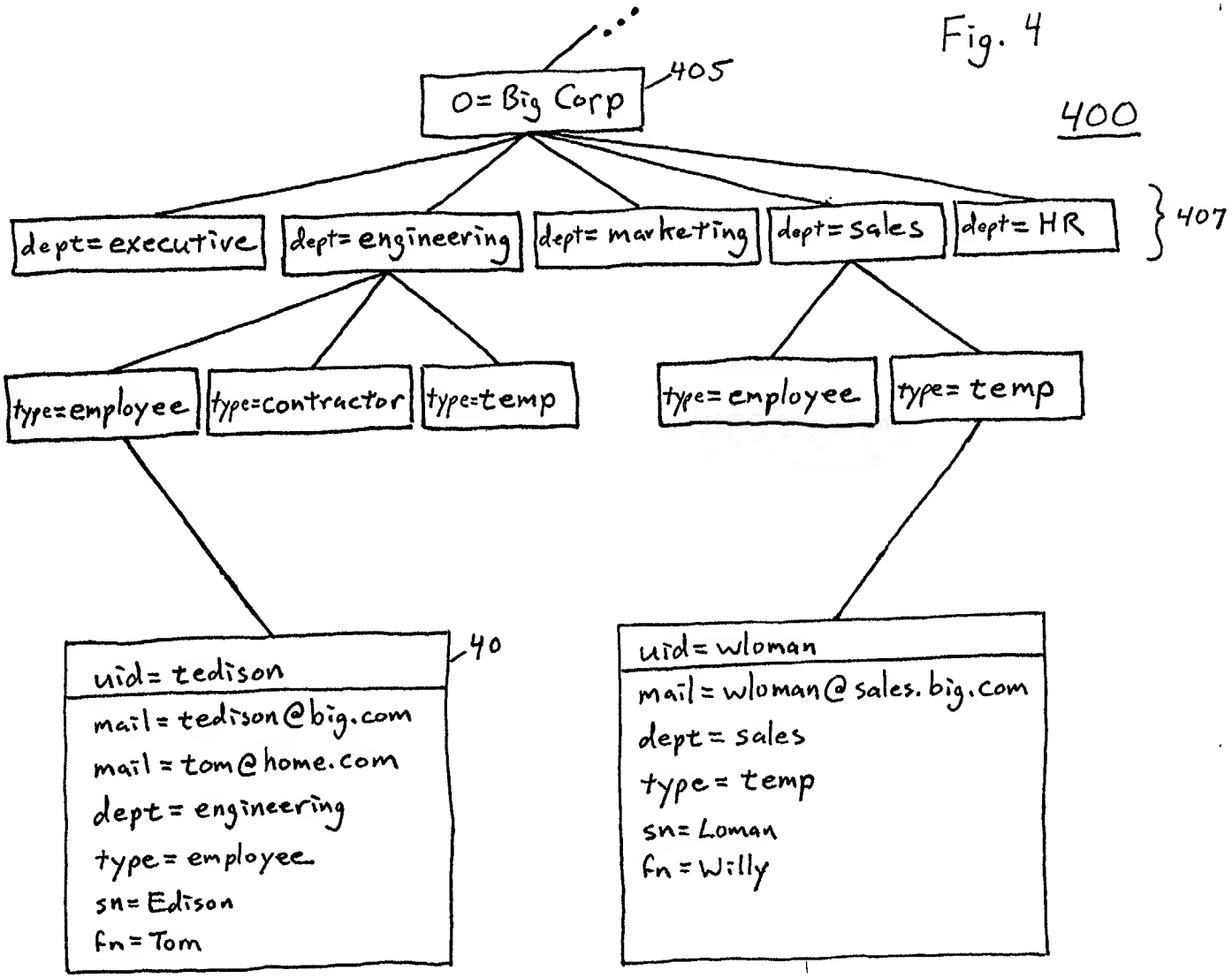
```
201  dn: uid=tedison, ou=Employee, o=Big Corp, c=US
202  fn: Tom
203  sn: Edison
204  objectclass:top
205  objectclass:inetOrgPerson
206  objectclass:person
207  objectclass:inetUser
208  objectClass:nsManagedPerson
209  uid: tedison
210  mail: tedison@big.com
211  mail: tom@home.com
212  dept: engineering
```

Fig. 3

```
301          LDApConnection ldc = null;
302
303       // get a conection
304          ldc = ... <snip>
305
306       // Now add the user
307          String dn = "uid=tedison, ou=Employee, o=Big Corp, c=US "
308          LDAPAttributeSet attrSet = new LDAPAttributeSet();
309          attrSet.add(new LDAPAttribute("objectclass", "top"));
310          attrSet.add(new LDAPAttribute("objectclass", "Person"));
311          attrSet.add(new LDAPAttribute("objectclass", "inetUser"));
312          attrSet.add(new LDAPAttribute("objectclass", "nsManagedPerson"));
313          attrSet.add(new LDAPAttribute("uid", "tedison"));
314          attrSet.add(new LDAPAttribute("mail", "tedison@big.com"));
315          attrSet.add(new LDAPAttribute("mail", "tom@home.com"));
316          attrSet.add(new LDAPAttribute("dept", "engineering"));
317          attrSet.add(new LDAPAttribute("ou", "employee"));
318          attrSet.add(new LDAPAttribute("sn", "Edison"));
319          attrSet.add(new LDAPAttribute("fn", "Tom"));
320          LDAPEntry entry = new LDAPEntry(dn,attrSet);
321
322       // Now add the entry
323          ldc.add(entry);
```

EXPRESS MAIL

Fig. 4



Redacted

Fig. 5

```
501       <ServiceConfig name="BasicUser" id="CreationObjects">
502            <AttributeValuePair> <Attribute name="name" />
503                 <Value>BasicUser</Value>
504            </AttributeValuePair>
505            <AttributeValuePair> <Attribute name="required" />
506                 <Value>objectClass=top</Value>
507                 <Value>objectClass=person</Value>
508                 <Value>objectClass=inetUser</Value>
509                 <Value>objectClass=nsManagedPerson</Value>
510                 <Value>uid</Value>
511                 <Value>fn</Value>
512                 <Value>sn</Value>
513                 <Value>dept</Value>
514                 <Value>type</Value>
515            </AttributeValuePair>
516            <AttributeValuePair> <Attribute name="optional" />
517                 <Value>userpassword</Value>
518                 <Value>telephonenumber</Value>
519                 <Value>givenname</Value>
520                 <Value>displayname</Value>
521                 <Value>title</Value>
522                 <Value>description</Value>
523                 <Value>mail</Value>
524                 <Value>postaladdress</Value>
525            </AttributeValuePair>
526            <AttributeValuePair> <Attribute name="namingattribute" />
527                 <Value>uid</Value>
528            </AttributeValuePair>
529            <AttributeValuePair> <Attribute name="validated" />
530                 <Value>mail=foo.com.validation.MailAddressValidator</Value>
531            </AttributeValuePair>
532            <AttributeValuePair> <Attribute name = "Location mapper" />
533                 <value>
534                      <mapfrom>  dept=employee </mapFrom>
535                      <mapto>    ou=employee</mapTo>
536                 </value>
537            </AttributeValuePair>
538       </ServiceConfig>
```

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Fig. 6

```
601     // Fill out at least the needed information only
602          LDAPAttributeSet attrSet = new LDAPAttributeSet();
603          attrSet.add(new LDAPAttribute("uid", "tedison"));
604          attrSet.add(new LDAPAttribute("fn", "Tom"));
605          attrSet.add(new LDAPAttribute("sn", "Edison"));
606          attrSet.add(new LDAPAttribute("dept", "engineering"));
607          attrSet.add(new LDAPAttribute("type", "employee"));
608          attrSet.add(new LDAPAttribute("mail", "tedison@bigcorp.com"));
609          attrSet.add(new LDAPAttribute("mail", "tom@home.com"));
610
611     // create the user
612          User newPerson = new User (BasicUser, attrSet);
613
614     // instantiate the organization
615          Organization bigcorp = new Organization (... <snip>);
616
617     // add the user to the LDAP database
618          bigcorp.add (newPerson);
```

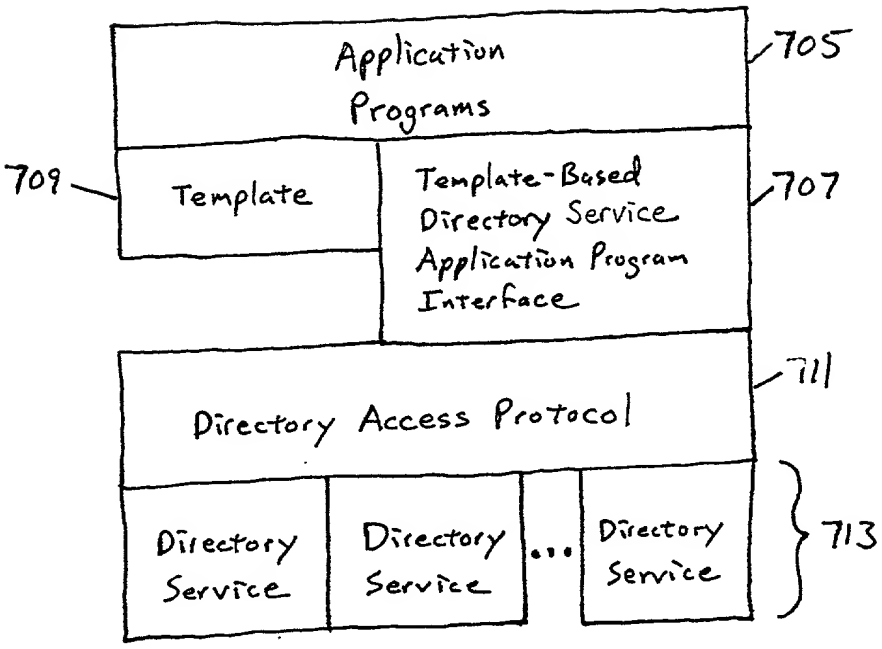
Application Programs
705
709
Template
Template-Based Directory Service Application Program Interface
707
Directory Access Protocol
711
Directory Service
Directory Service
...
Directory Service
713

Fig. 7

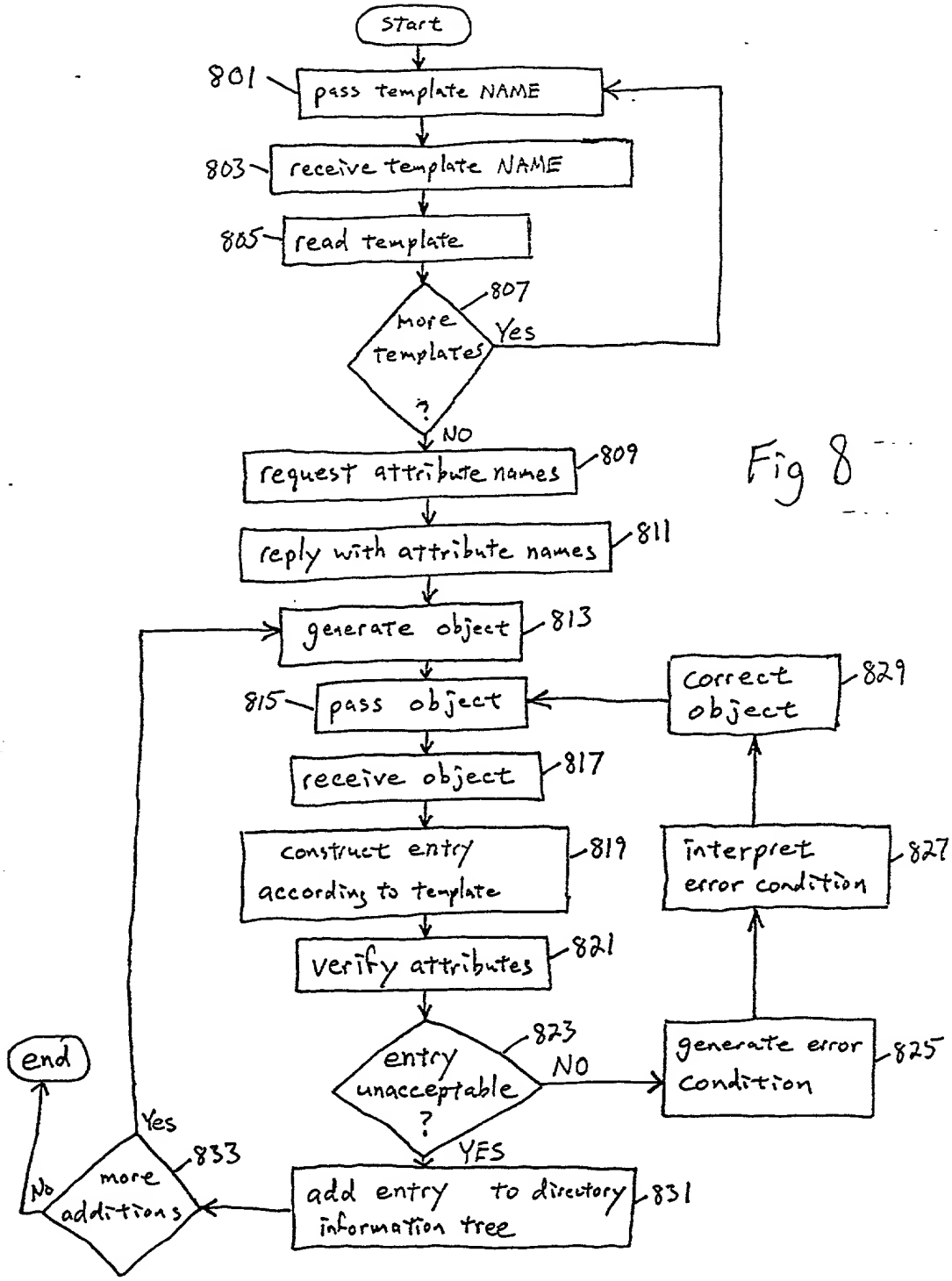
Start
801
pass template NAME
803
receive template NAME
805
read template
807
more templates ?
Yes
NO
809
request attribute names
811
reply with attribute names
813
generate object
815
pass object
829
correct object
817
receive object
819
construct entry according to template
827
interpret error condition
821
verify attributes
823
entry unacceptable ?
NO
825
generate error condition
YES
end
Yes
833
more additions
No
831
add entry to directory information tree

Fig 8

PLEASE DO NOT REMOVE

Fig. 9

```
801     <ServiceConfig name="BasicUserSearch" id="SearchObjects">
802          <AttributeValuePair> <Attribute name="name" />
803               <Value> BasicUserSearch </Value>
804          </AttributeValuePair>
805          <AttributeValuePair> <Attribute name="searchfilter" />
806               <Value>objectclass=nsManagedPerson</Value>
807          </AttributeValuePair>
808          <AttributeValuePair> <Attribute name="attrs" />
809               <Value>uid</Value>
810               <Value>fn</Value>
811               <Value>sn</Value>
812          </AttributeValuePair>
813     </ServiceSubConfig>
```